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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MultiConnect[®] rCell 100 Series

Cellular Routers



The MultiConnect[®] rCell 100 Series of cellular routers, optimized for M2M (machine-to-machine)/Internet of Things (IoT) applications, offer a robust Ethernet or serial network interface platform ready to deploy. The intuitive user interface and free cloud device management (no recurrent monthly fees) allows for quick configuration and over-the-air upgrades. Enhanced with features such as WAN Failover and Certificate Management, the MultiConnect rCell 100 Series creates an ideal environment for secure and redundant communications critical to the reliability of remote monitoring systems in a variety of industries.

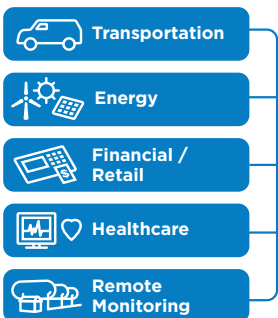
FEATURES

- 4G-LTE, 3G and 2G cellular technology support
- Flexible Web API for developers based on RESTful JSON over HTTPs
- Ruggedized enclosure - Class I Div 2
- Designed, manufactured and tested in ISO 13485 facilities
- Remotely hosted device management platform

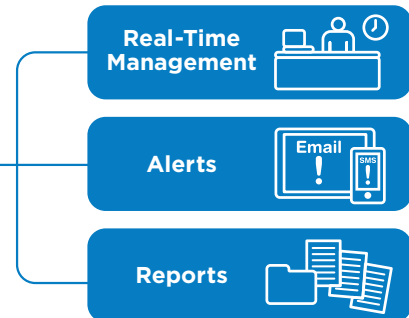
BENEFITS

- Lowest total cost of ownership
- Long and stable lifecycles
- Certified and carrier-approved

Your Devices & Data



Insight + Action + Control



SPECIFICATIONS

Model	MTR-LAT1	MTR-LVW2	MTR-LEU1	MTR-H5
Performance	LTE			HSPA+
Frequency Band (MHz)	4G: 700(B17)/850(B5) /AWS1700(B4)/ 1900(B2) 3G: 850(B5)/1900(B2) 2G: 850/1900	4G: 700(B13)/ AWS1700(B4)	4G: 800(B20)/ 1800(B3)/2600(B7) 3G: 850(B5)/ 900(B8)/2100(B1) 2G: 900/1800	3G: WCDMA/HSDPA/ HSUPA 800/850/900/ AWS1700/1900/2100 2G: GSM/GPRS/EDGE 850/900/1800/1900
Packet Data*	Up to 100 Mbps downlink/ Up to 50 Mbps uplink (Category 3)			Up to 21.0 Mbps downlink, up to 5.76 Mbps uplink
Diversity/MIMO	Rx Diversity and MIMO DL 2x2			Yes
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS			
Voltage	7V to 32VDC			
Connectors				
Cellular	Female SMA			
Wi-Fi	Not Available	Not Available	Reverse polarity female SMA	
GPS	Female SMA			
SIM	Mini SIM; 1.8 and 3V			
LAN	RJ-45, 10/100 BaseT			
RS-232	DE9			
Power	2.5 mm miniature (screw-on)			
Physical Description				
Dimensions (L x W x H)	4.17" x 3.0" x 1.15" (10.6 cm x 7.6 cm x 2.9 cm)			
Weight	0.51 lbs (0.231 Kg)			
Chassis Type	Aluminum			
Environmental				
Operating Temperature†	-40° to +185° F (-40° to +80° C)			-40° to +185° F (-40° to +85° C)
Storage Temperature	-40° to +185° F (-40° to +85° C)			
Humidity	Relative humidity 15% to 93% noncondensing			
Certifications				
Regulatory	FCC Class B (US), IC (Canada)	FCC Class B (US)	R&TTE (EU Economic Area)	FCC Class B (US), IC (Canada), R&TTE (EU Economic Area), A-Tick (Australia/NZ)
Safety	UL60950-1 (US), UL 201 (US) cUL60950-1 (Canada)	UL60950-1 (US), UL 201 (US)	IEC60950-1 (EU Economic Area)	UL60950-1 (US), UL 201 (US), Class I Div 2 (US and Canada), cUL60950-1 (Canada), IEC60950-1 (EU Economic Area), AS/NZS 60950.1 (Australia/NZ)
Network	AT&T, T-Mobile, Rogers	Verizon	EU carriers	PTCRB, GCF approved module, AT&T, T-Mobile, Telstra, EU carriers Rogers, Pending: Bell, Telus
Quality	MIL-STD-810: High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration SAE J1455: Random Vibration and Sine Vibration			
Build Options Available	B07, B08			B07, B08, B09, B10, Class I Div 2

* Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.

† Device has been tested up to +85° C. UL Recognized @ 40° C, limited by AC power supply. UL Recognized @ 60° C when used with the fused DC power cable, part number FPC-532-DC. Note: The radio's performance may be affected at the temperature extremes. This is considered normal. There is no single cause for this function. Rather, it is the result of an interaction of several factors, such as the ambient temperature, the operating mode and the transmit power.

HIGHLIGHTS

Applications

The MultiConnect rCell 100 Series of cellular routers are used in a wide variety of applications such as digital signage, smart vending, smart energy or home medical monitoring. Because the routers are certified and carrier approved, customers are able to quickly deploy with cellular connectivity to realize new revenue streams, expense reduction or improved service offering.

WI-FI/BLUETOOTH SPECIFICATIONS

The Wi-Fi interface can be set up in 802.11 b/g/n Access Point (AP) or client mode. In AP mode, the router can support up to 5 client connections. The Bluetooth serial interface allows you to set up a transparent data pipe from a Bluetooth device to a remote server. The router can be configured using TCP or UDP protocols and supports client and server modes giving you the flexibility you need for your particular application. RFCOM and SPP profile support. Contact MultiTech about additional Bluetooth profile support today.

Security

The MultiConnect rCell 100 Series of cellular routers use IPsec industry standard data encryption to provide high performance, secure LAN-to-LAN VPN connections with 3DES or AES encryption using IKE and PSK key management. Support for five concurrent VPN tunnels.

Wi-Fi

- 802.11 b/g/n (1x1), 2.5GHz (20MHz BW)
- 11, 54 and 65 Mbps max theoretical throughput, for 802.11 b/g/n, respectively
- 20, 15 and 14.5 dBm output power, for 802.11 b/g/n, respectively
- WEP, WPA, and WPA2 support

Bluetooth

- Version 2.1+EDR
- Power Class 1.5
- Data rate 3 Mbps

SPECIFICATIONS

Model	MTR-H6	MTR-EV3	MTR-G3	MTR-C2
Performance	HSPA	EV-DO	GPRS Class 10	1xRTT
Frequency Band (MHz)	3G: Tri-band 850/900/2100 2G: Quad-band 850/900/1800/1900	Dual-band 800/1900	Quad-band 850/900/1800/1900	Dual-band 800/1900
Packet Data*	Up to 7.2 Mbps downlink, up to 5.76 Mbps uplink	Up to 3.1 Mbps downlink Up to 1.8 Mbps uplink	Up to 85.6K downlink Up to 85.6K uplink	Up to 153.6K downlink Up to 153.6K uplink
Diversity/MIMO	No	Yes	No	
SMS	Point-to-Point Messaging, Mobile-Terminated SMS, Mobile-Originated SMS			
Voltage	7V to 32VDC			
Connectors				
Cellular	Female SMA			
Wi-Fi	Not Available	Not Available	Reverse polarity female SMA	
GPS	Female SMA			
SIM	Mini SIM; 1.8 and 3V	N/A	Mini SIM; 1.8 and 3V	N/A
LAN	RJ-45, 10/100 BaseT			
RS-232	DE9			
Power	2.5 mm miniature (screw-on)			
Physical Description				
Dimensions (L x W x H)	4.17" x 3.0" x 1.15" (10.6 cm x 7.6 cm x 2.9 cm)			
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Regulatory	R&TTE (EU Economic Area), A-Tick (Australia/NZ)	FCC Class B (US)	R&TTE (EU Economic Area)	FCC Class B (US)
Safety	IEC60950-1 (EU Economic Area), AS/NZS 60950.1 (Australia/NZ)	UL60950-1 (US), UL 201 (US), Class 1 Div 2 (US and Canada)	IEC60950-1 (EU Economic Area)	UL60950-1 (US), UL 201 (US)
Network	GCF, Telstra, EU carriers	Aeris, Verizon, Sprint	EU carriers	Verizon, Aeris
Quality	MIL-STD-810: High Temp, Low Temp, Cold Dwell, Random Vibration and Sine Vibration SAE J1455: Random Vibration and Sine Vibration			
Build Options Available	B16, B18, B19	B07, B08, B09, B10	B16	B16, B17

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BUILD / ORDERING OPTIONS (FOR MODELS WITH ACCESSORY KITS)

Build Number	Power Supply	Cellular Antenna	Ethernet Cable	GPS Antenna	Wi-Fi Antenna
B07	X	X	X		
B08	X	X	X	X	
B09	X	X	X		X
B10	X	X	X	X	X
B16	X	X	X		
B17	X	X	X	X	
B18	X	X	X		X

WIRELESS ACCESSORIES ORDERING GUIDE:
WWW.MULTITECH.COM/CPAG.GO

SOFTWARE SPECIFICATIONS

Security

SPI Firewall Wizard for creating port forwarding and outbound traffic blocking rules Advanced settings allows users to specify DNAT, NAT-T, SNAT, and Filter rules for accepting, rejecting, dropping, and logging packets	SSL on Serial Port MAC Filtering Accept, reject, drop and/or log packets based on their MAC address Tunneling IPSec VPN IKE with 3DES, AES-128, 192 and 256 encryption (up to 5 connections)	GRE tunneling VPN passthrough support Easy to use Wizards Configurable IP Defense Denial-of-Service ICMP/Ping Flood Brute Force Access
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SSL Certificate Management

Management

Hosted device management with MultiTech DeviceHQ API (RESTful JSON over HTTPs) SMS messaging via API Firmware Upgradeable through GUI, API or DeviceHQ Configuration file save and restore	User-defined default configuration can be saved and recovered on device Troubleshooting options Downloadable logs Remote Syslog Auto-reboot Configurable to time of day Diagnostics over SMS Radio Terminal	Ping Test RF survey tool Remote reboot over SMS Statistics on system performance, Ethernet, Wi-Fi, cellular, tunnel interfaces, and serial and Bluetooth usage Data usage alerts SMS and email
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Useability

Start up wizard to activate and configure device Context sensitive help/ Help-On-Hover pop-ups	Documentation integrated into Web GUI	Customizable GUI Upload logos, labels, and color schemes Customize support contact information
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Flexibility

WAN Failover Wi-Fi models only IP Pass-through Dynamic DNS (DDNS) (Enables private LAN access with port forwarding) Forwarding DNS Server DHCP Server Supports fixed and dynamic IP addresses Configurable SNTP client Serial Port (RS-232) PAD - Packet Assembler/Disassembler TCP/UDP protocols Supports client and server modes	Configurable MODBUS Pass-through Bridges serial MODBUS RTU traffic to MODBUS TCP Allows a MODBUS TCP Master to communicate with a MODBUS RTU slave connected to the serial port Persistent Connectivity/ Keep-Alive Active and passive cellular link monitoring (automatic repair of the cellular PPP connection) Active mode (ICMP or TCP) feature is configurable to ping or connect to a server at specified intervals	Passive mode monitors cellular connection for traffic for a configurable time period Dial on Demand Maintains cellular connection only when there is traffic to send Wake Up on Call Establishes a cellular connection upon a wake up event such as Ring, Caller ID or SMS GPS Server and client modes provide configurable NMEA data to external devices (LAN and/or WAN) Serial port dump
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Protocols

Network: TCP/IP, UDP/IP, DNS, SSL/TLS, PAP, CHAP, idle time Routing: NAT, Host Port Routing, DHCP, PPP, Static Routes	Application: Telnet/SSH Serial: TCP/UDP PAD Mode, MODBUS RTU	Bluetooth: TCP/UDP PAD Mode, SPP, RFCOMM GPS: NMEA TCP/UDP Server/Client
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For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit www.multitech.com/support.go

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